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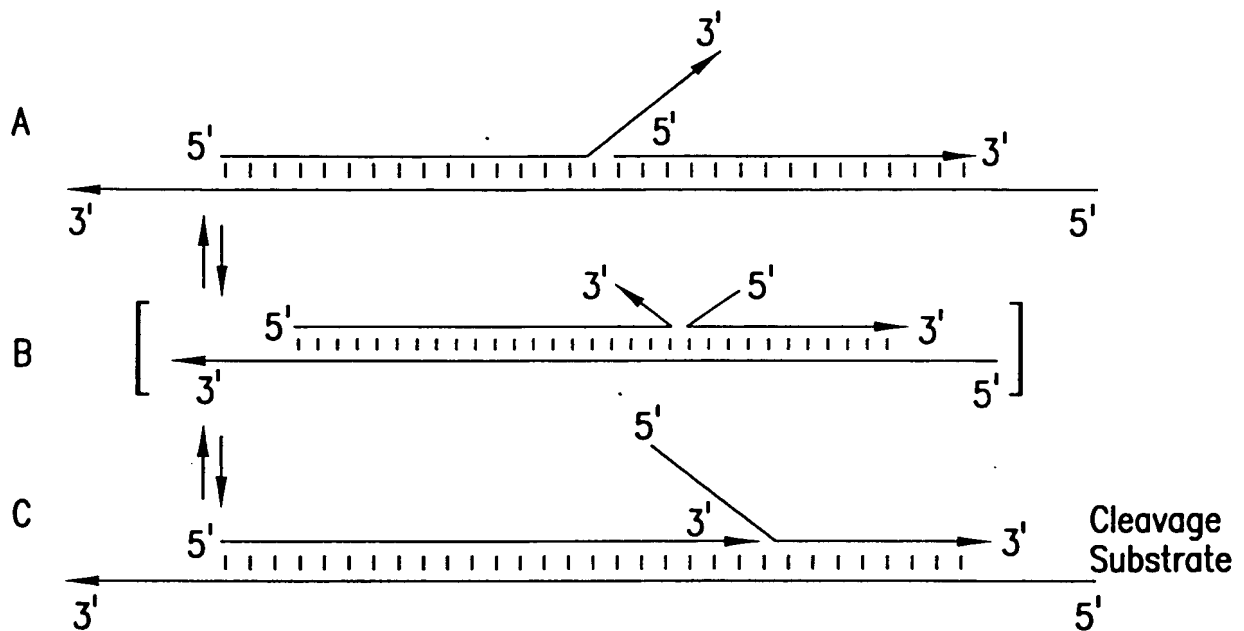


FIG. 1A

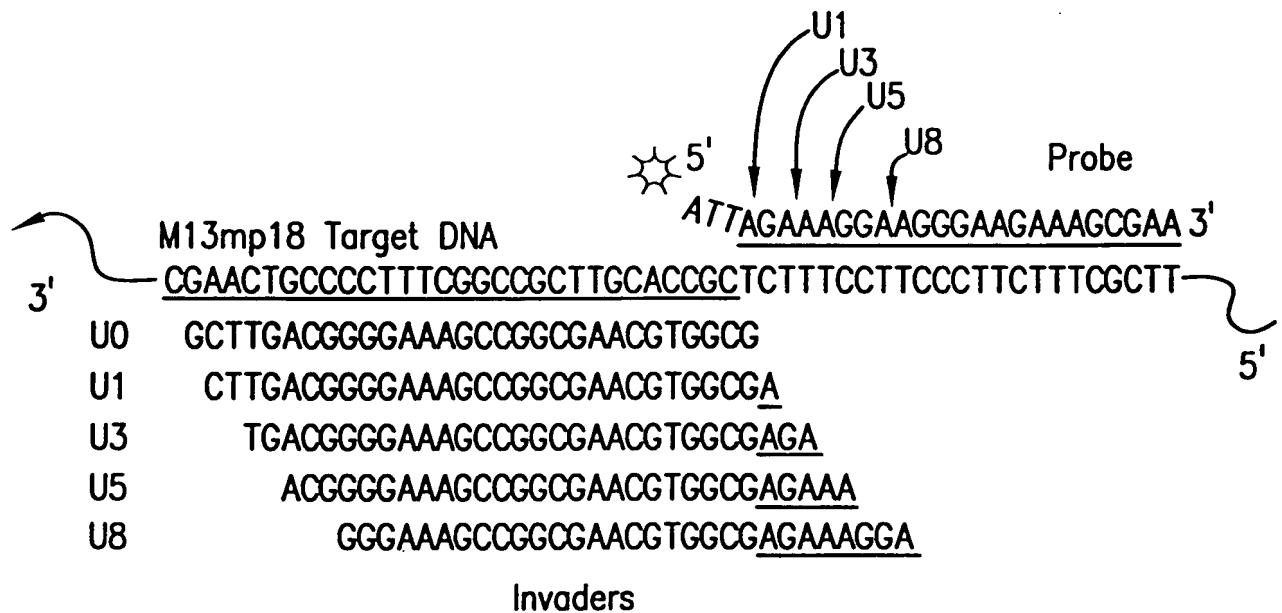
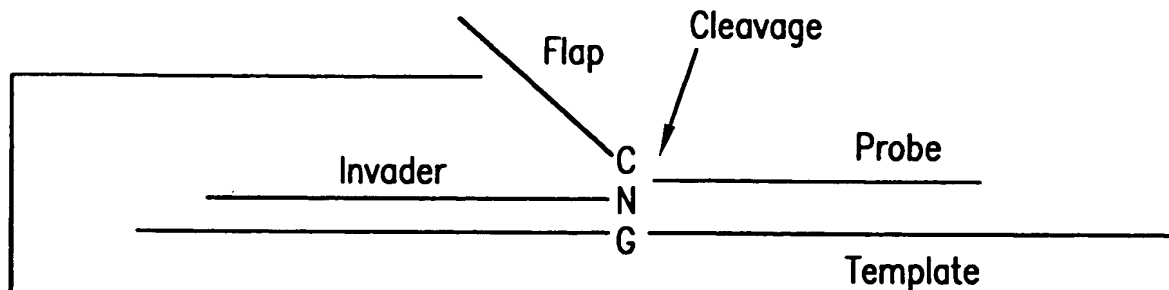


FIG. 1B

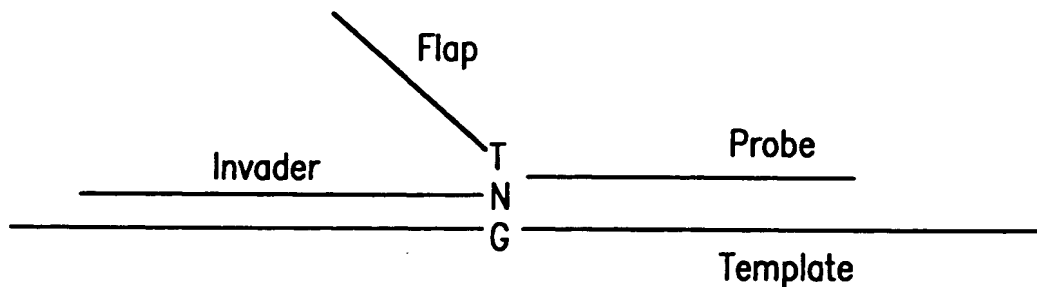


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### PRIMARY INVADER REACTION

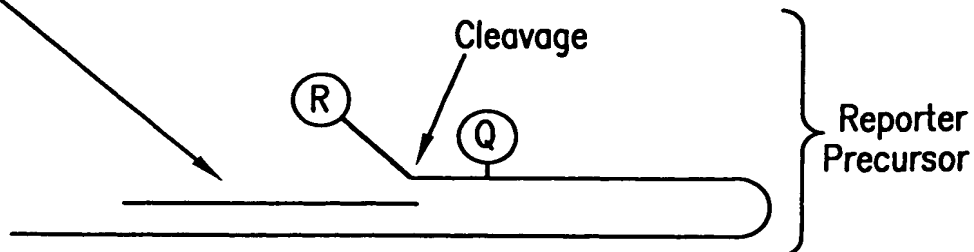


Cleavage because Invader disrupts duplex between Template and Probe



No cleavage because no disruption of base pairs between Template and Probe

### SECONDARY INVADER REACTION



Flap from Primary Invader Reaction becomes Invader for Secondary Reaction. Cleavage liberates Reporter from Quencher, thus generating fluorescent signal.

FIG.2



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Invasion Assay - MTHFR 677T Allele

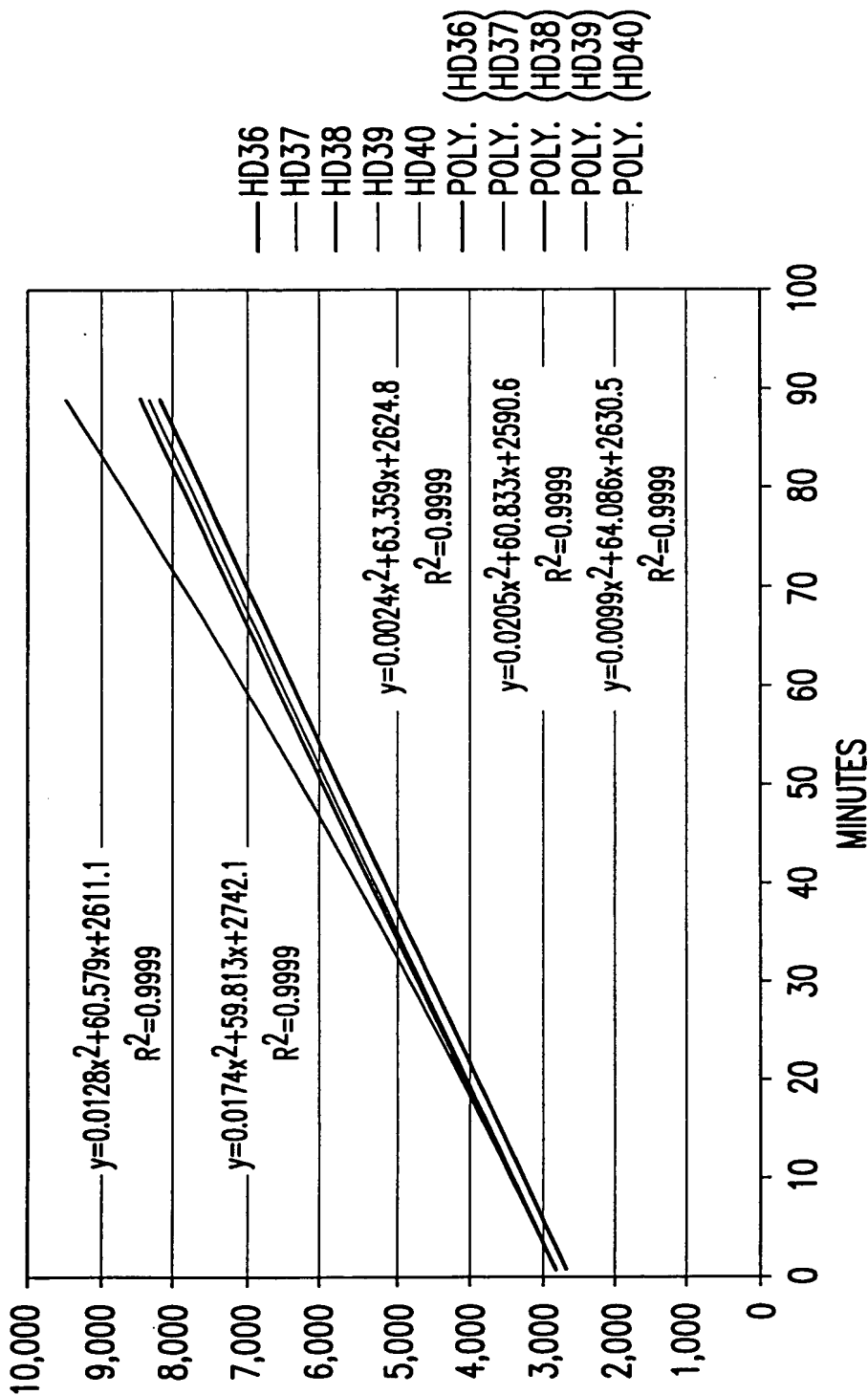
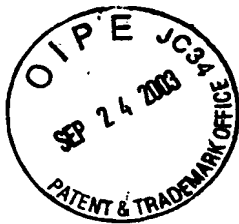


FIG. 3



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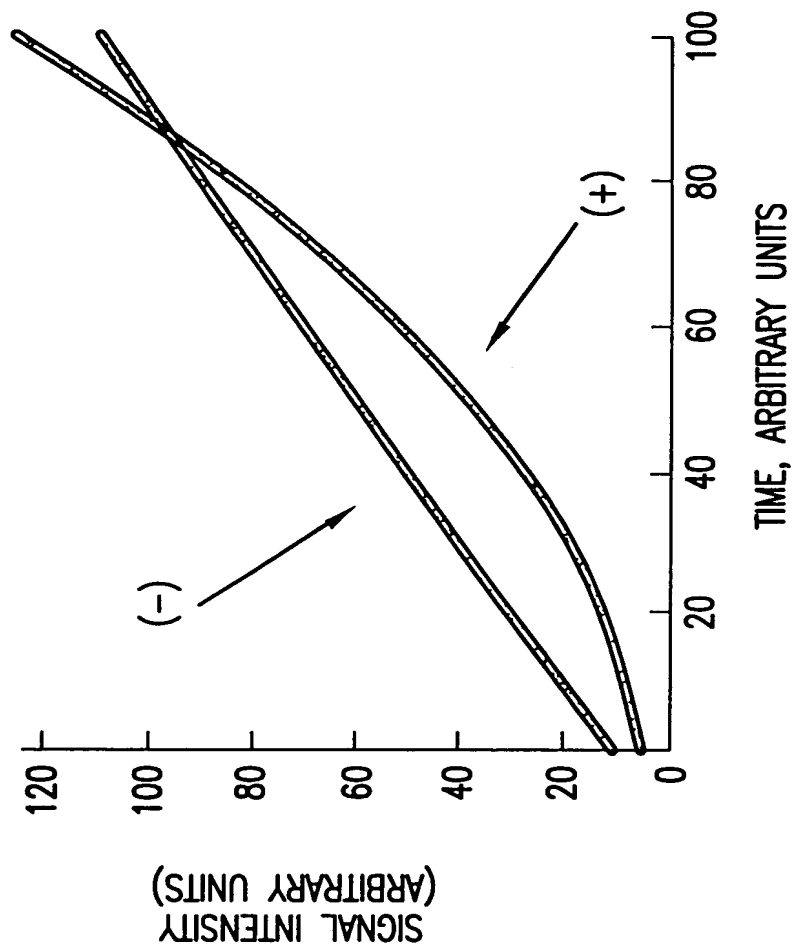


FIG.4



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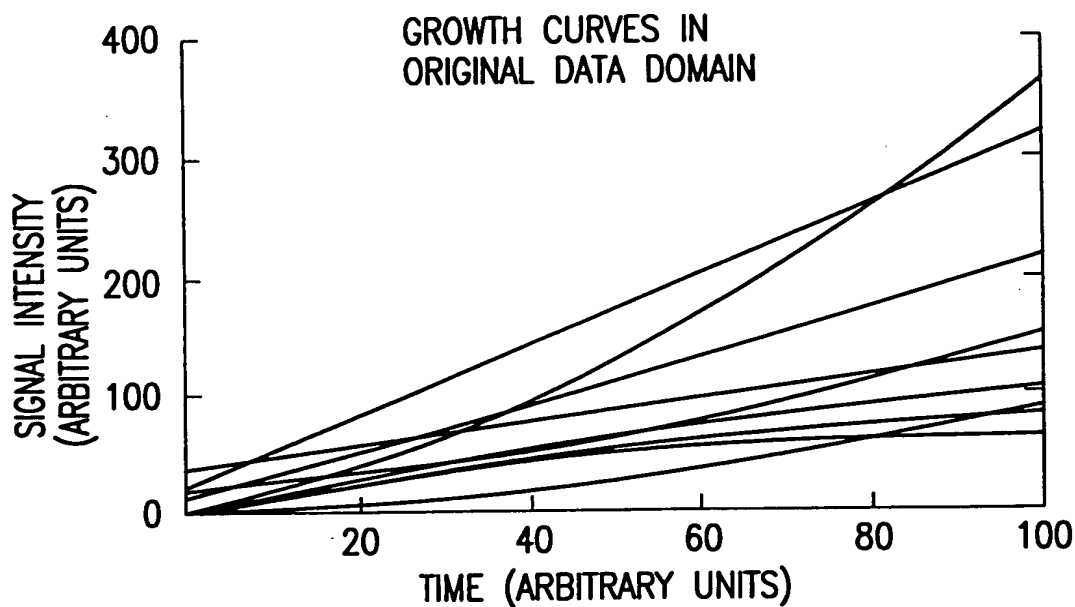


FIG. 5A

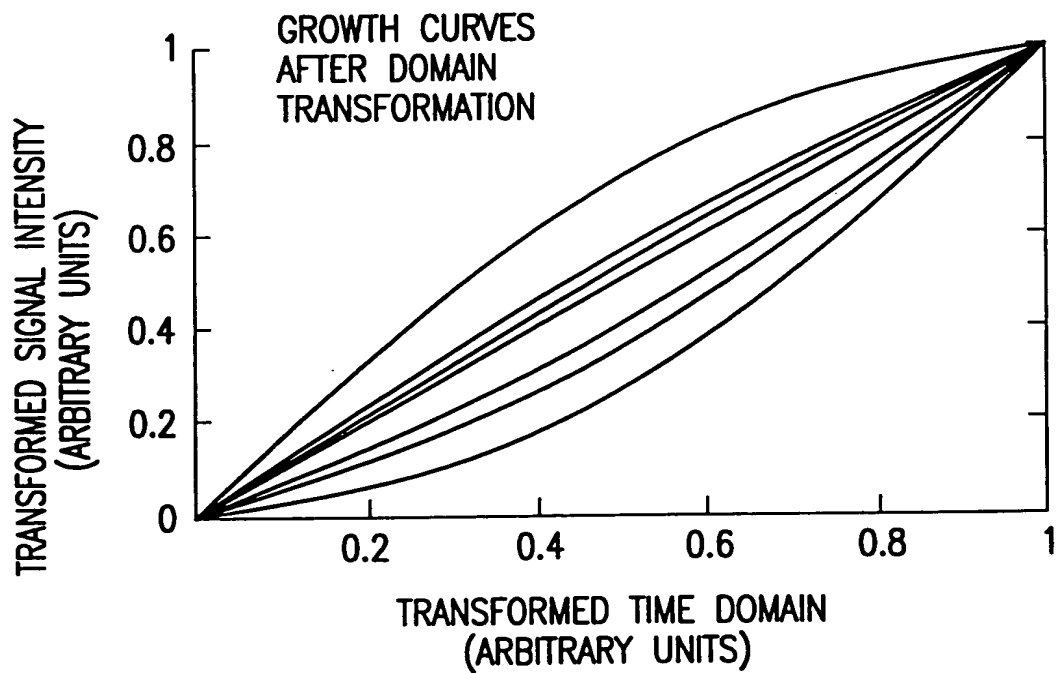


FIG. 5B



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C REACTION 2p COEFFICIENTS

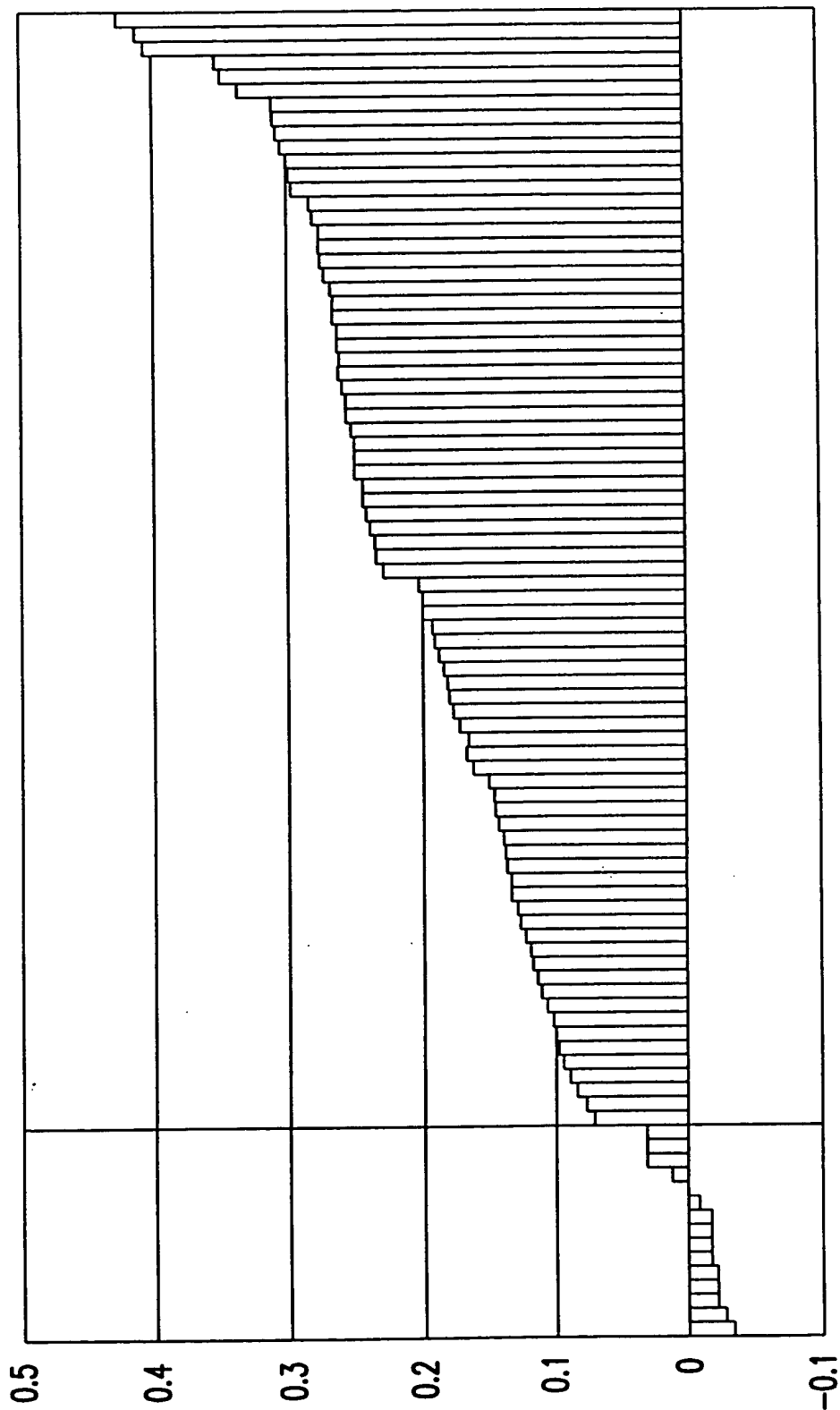


FIG. 6A



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T REACTION 2p COEFFICIENTS

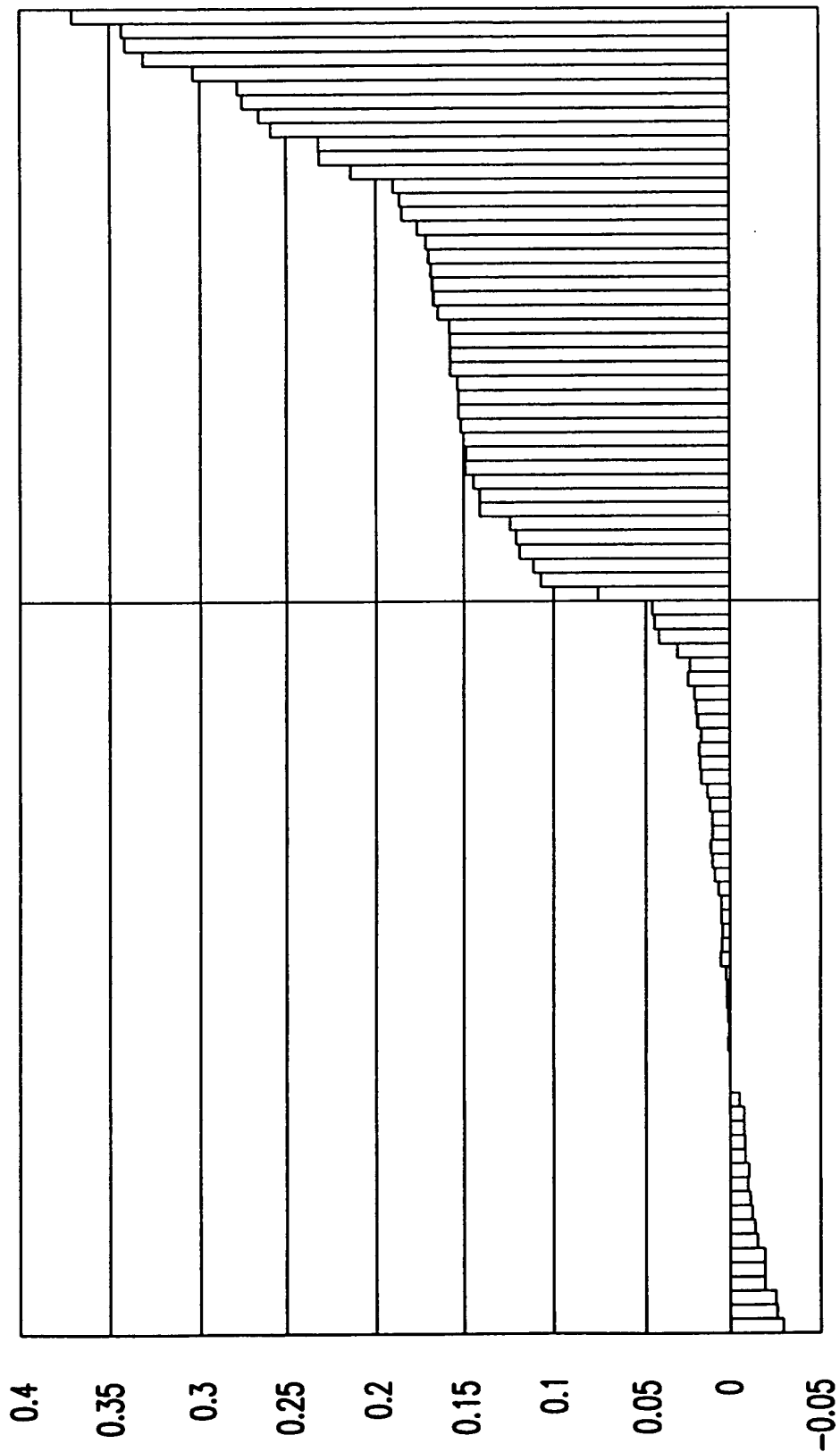


FIG. 6B



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HUMAN GENOMIC DNA FROM 90 DIFFERENT  
INDIVIDUALS ANALYZED BY INVASIVE CLEAVAGE

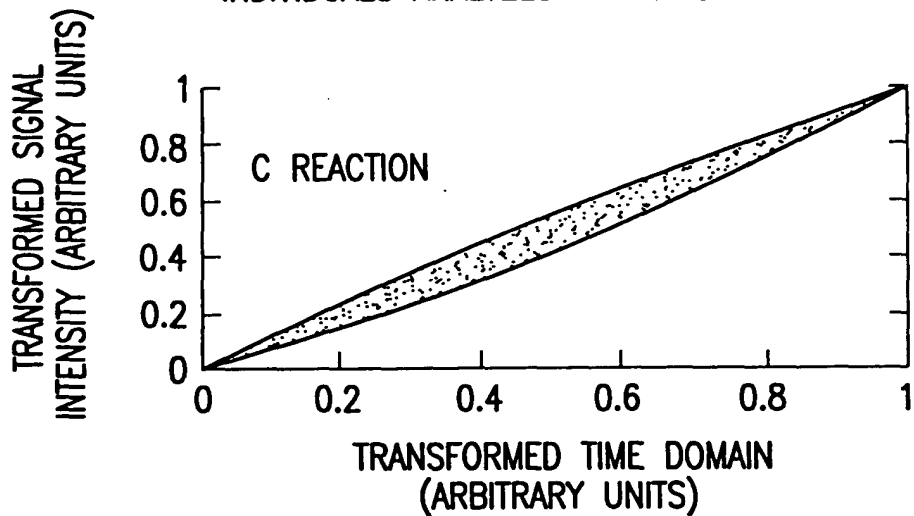


FIG. 7A

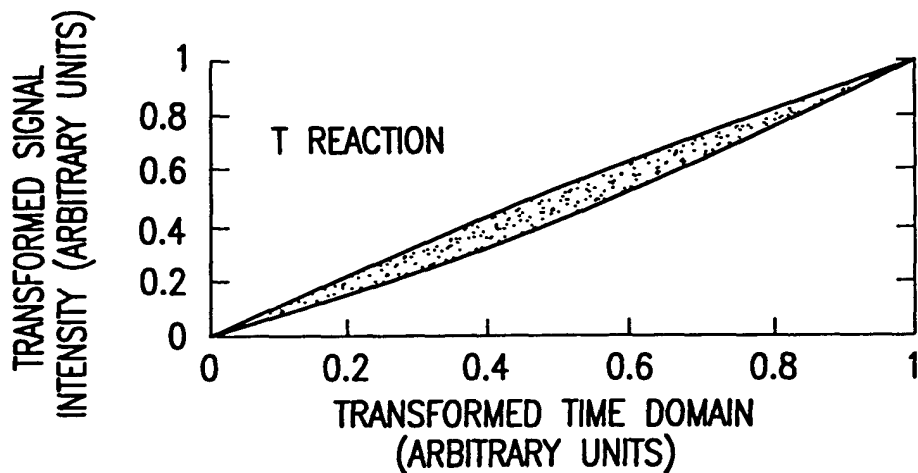


FIG. 7B